



Army Product Data Update To Air Force JEDMICS Site Managers

24 March 2004



Purpose and Agenda

Purpose: High level “Snap Shot” of AMC activities that may be of interest to Air Force Technical Data and JEDMICS Site Managers.

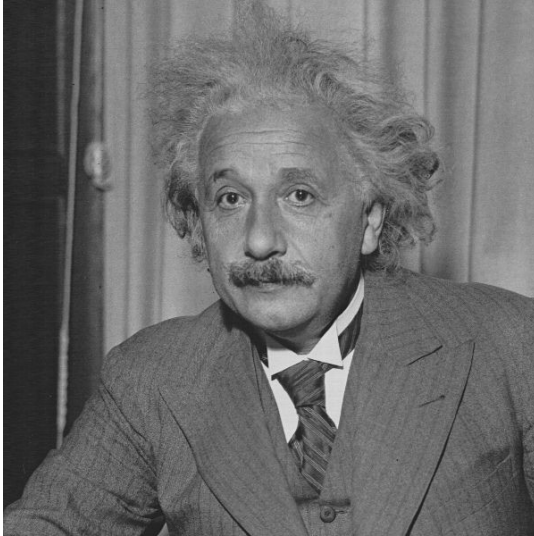
Agenda:

- Quote for the Day
- Overview AMC Business Drivers
- Product Data Related Activities
- AMC JEDMICS Status
- Q&A

Quote for the Day

"Any intelligent fool can make things bigger, more complex, and more violent. It takes a touch of genius -- and a lot of courage -- to move in the opposite direction."

--- Corollary ---



Albert Einstein

"We can't solve problems by using the same kind of thinking we used when we created them."

Current Business Drivers

- OPTEMPO is Very High... Iraqi Freedom and several other ongoing operations
 - Recondition equipment returning from Theater... RESET
 - Rapid Turnaround required
 - Procuring and Rebuilding items we haven't dealt with since Desert Storm
 - Sand invasion is severe
 - Business volumes are higher than "pre-Iraqi-Freedom" ramp-up levels
 - Stresses budget and personnel resources
 - Many "good ideas" put on hold
- Continued Downsizing and Reorganizations... little slower pace than previous
- Beginning to observe some indications at DOD levels that:
 - recognizes absence of data is adversely impacting mission
 - loss of Systems Engineering focus may have been a bad idea
 - Acquisition Reform may have gone too far
- Information Assurance Threats continue to increase in intensity
 - Impacting operations and consuming considerable resources

Current Business Drivers

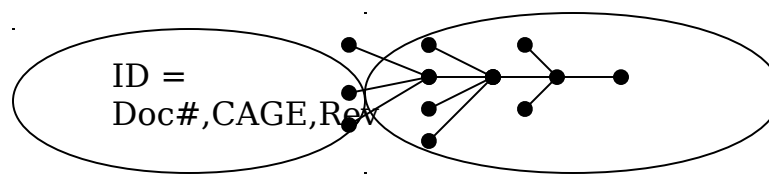
LEAN Initiative being applied across AMC:

- Streamline business processes to reduce government Administrative Lead
 - Reduce overall times and costs... time is cost
 - Primary focus on processes and people tasks
 - Must do to offset loss of personnel and budgets
 - IT Footprint is a significant cost factor
 - Approach is being applied to other AMC objectives
e.g. Performance Based Logistics, Soldier Focused Logistics
- Lessons Learned thus far:
 - A systematic structured approach to BPR (not TQM or similar)
 - Not an Information Technology initiative
 - Intentionally avoiding automating bad processes
 - Must rethink “why we do what we do” and “how we do it”
 - Value Chain mapping is very revealing
 - Challenge the rules in context of value chain... why is it a rule?
 - Needed outside Help to learn principles, re-train personnel, change th
 - Realizing benefits much greater than expected
 - Example: AMCOM EDMS area from 19 to 4 days ALT in 18 months.

Ongoing AMC Product Data Related Activities

- Army Advanced Collaborative Environment (ACE) Initiative
 - Planning underway, Un-funded, Process of preparing budget request
 - Focus on up-front weapon systems acquisition
 - ASA(L&T) mandated, PEO EIS Lead
- Logistics Modernization Program (LMP) using SAP ERP
 - Funded and ongoing
 - Focus on Material Management for Sustainment
- Single Army Logistics Environment (SALE) Product Lifecycle Management (PLM+) Initiative
 - Planning Underway, Un-funded, Process of defining and preparing budget request
 - Focus on operational logistics support
 - AMC G3 Enterprise Integration Office Lead
- Government Data Management and Configuration Management Guidance:
 - Joint Data Management Working Group
 - Reach consensus on documented procedures for DM
 - Provide an alternative or recommended changes to DOD 5010.12M
 - MIL-DTL-31000 Update
 - Product Data Exchange Specification (GEIA 836)
- Data Digitization and Conversion Projects
 - Modernize data where it makes sense to support current operations
 - Managing several Congressional Interest Projects
- Sustain existing CM/DM systems until fully replaced (while reducing overall IT costs)

Evolution of AMC Product Data Management Systems Continues

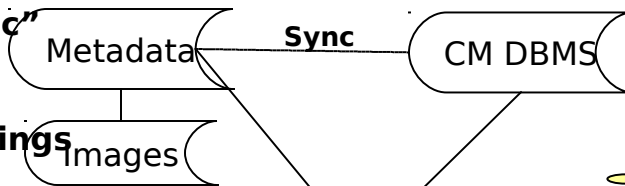


AMC process is Weapon System Configuration Management Based

JEDMICS

TDCMS / ICAPP

**“Document Centric”
Document Mgmt
ASME Y14
Engineering Drawings**



**“Part Centric”
Configuration Management
Configuration Status Accounting
Mil-Std-973, EIA-649**

Business Process
Integration + Middleware products
e.g. EDIS, PDM, other

**1994-1999
Integrated CM &
DM**

**1999 -
present,
Business
process
integration
(domain
level focus)**

Evolves to
“Product Centric” PDM...

**TACOM
Windchill,
PDM**

**CECOM
Centra ,
PDM**

**SBCCOM
Team Center
PDM**

**OGA
Business
Partners**

**Current
focus:
Enterprise
Integration**

Enterprise Integration:

- **Product Data Exchange** is a pre-requisite to Enterprise Integration
- **Must establish Product Data Exchange Standard, define Enterprise data needs, and establish policy guidance**
- **Supporting development of EIA-836**

Current AMC Product Data Systems Operational Environment

RDECOM

Research Development and Engineering Command

RDECOM TARDEC
(TACOM)
Windchill PDM

RDECOM ARDEC
(Picatinny)
CARS + SAP

RDECOM Edgewood
Team Center PDM

TACOM Ground Systems Industrial Enterprise (GSIE)

Rock Island
Arsenal
JEDMICS

Red River
Army Depot
JEDMICS

Anniston
Army Depot
JEDMICS

- Product Data Exchange Standard is high on AMC “needs list”.
- Lack of DOD policy, procedures, standards for product data management
- Lack of policy and standards for product data exchange between business partners
 - Also lack of consensus among DOD Prime Contractors

CECOM

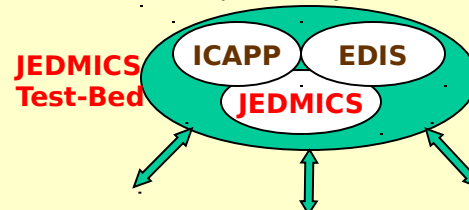
CECOM
LRC
Centra PDM

Tobyhanna
Army Depot
JEDMICS

AMC
Continues to
Evolve

AMCOM

One Corporate System at Redstone



Consolidated
three JEDMICS
sites into one.
JEDMICS does
back-office
storage only.

2000 to 2003: Reduced from 10 Production JEDMICS systems to 5

AMC JEDMICS Specific Status

- Observed AMC position related to JEDMICS:
 - Army Leadership believes JEDMICS is in sustainment phase
 - No significant enhancements
 - “HQ AMC will not centrally fund technical refresh”
 - “Sustain operations until fully replaced”
 - “Control cost growth and reduce overall IT costs”, HQ AMC G6
 - Decision to consolidate or replace left up to mission Command

Status of Army JEDMICS Sites

Rock Island Arsenal

- Realigning mission
- Focus on Joint Munitions Center, Ammunition Safety and Ground Systems Industrial Enterprise (GSIE) organic manufacturing
- Transition to Sun V880 in process
- Spares procurement business level greatly reduced

Red River Army Depot

- JBR 3.2 (several hardware sustainment issues)
- Awaiting FY04 funding for system

Anniston Army Depot

- Transition to JBR3.4 and Sun V880 in process

Tobyhanna Army Depot

- Transition to JBR3.4 and Sun V880 in process

Status of Army JEDMICS Sites (cont.)

AMCOM

- Corpus Christi Depot and Letterkenny Depot JEDMICS sites discontinued
 - Data merged with AMCOM enterprise solution
- JBR 3.4 operational on SGI platform
- Transition to Sun V880 in process (1 April completion)
- JEDMICS used as “back-office” storage only
- EDIS handles all “front office” business processes
 - Provides web front end to JEDMICS data
 - Middle-ware integration to multiple engineering data resources
 - Manages Technical Review Process
- Technical Data Acceptance Process (TDAP) software & hardware operational
 - Object-oriented environment for multi-media, multi-device, multi-rule-s
 - Non-JEDMICS specific scanning devices
- CDEX-Lite Deployed to Engineering Support activities

Army JEDMICS Tool Set Products Provided to DOD Community

- PC_JEDMICS Version 3.1.0 (no major upgrades currently planned & funded)
- IndexR Version 2.2.365
- ImageR Revision History:
 - 07/11/03 ImageR 5.1.1.12
 - 12/13/02 ImageR 5.1.1.10
 - 12/11/02 ImageR 5.1.1.9
 - 06/20/02 ImageR 5.1.1.7
 - 03/22/02 ImageR 5.1.1.6
 - 04/19/01 ImageR 5.1.1.5
 - 09/07/00 ImageR 5.1.1.4
 - 07/07/00 ImageR 5.1.1.3
 - 04/21/00 ImageR 5.1.1.2
 - really old ImageR 5.1.0.4
- CDEX Version 4.0
 - Windows 2000 based
 - Compatible with Rimage Version 6.0

See <http://jts.redstone.army.mil> for details of changes